

I CLAIM:

1. A method for securely mounting an elongated, insulating strip in an elongated metal profile section, the strip having opposed longitudinal edges and the profile section having an elongated groove with a slightly open mouth; the method comprising: placing one edge of the strip into the elongated groove in the profile section, the strip extending out of the groove and the groove loosely holding the strip; and then partly closing the mouth of the groove, simultaneously along the entire length of the groove, onto the strip to securely retain the strip to the profile section.
2. A method as claimed in claim 1 wherein the other edge of the strip is mounted into an elongated groove in a second profile section, the second groove having a slightly open mouth to loosely hold the other edge of the strip, and partly closing the mouth of the second groove, simultaneously along the entire length of the groove, onto the strip to securely retain the strip to the second profile section.
3. A method as claimed in claim 3 wherein the grooves in the profile sections are partly closed simultaneously with each other.
4. A method as claimed in claim 3 including the step of mounting the first and second profile sections on a first die in a press with the grooves in the profile sections facing each other, placing the strip in the grooves while the profile sections are on the die, and then relatively moving a second die in the press toward the first die to provide the partial closing of the mouths of the grooves simultaneously along their entire length.
5. A method as claimed in claim 4 wherein the grooves are roughened during mounting the strip in the groove.
6. A method for providing a thermal break between two adjacent

elongate metal profile sections, each profile section having first and second elongate parallel grooves in one side of the profile section, each groove having an outer side and an inner side, the inner sides adjacent, the outer sides slightly bent away from each other, each groove having a slightly open mouth; the method comprising the steps of: mounting the profile sections to have the one side of one profile section facing the one side of the other profile section; mounting two insulating strips between the profile sections, each strip having opposed longitudinal edges; one strip having its edges loosely in the first grooves in the profile sections, the second strip having its edges loosely in the second grooves in the profile sections; and moving the outer sides of the first grooves in the profile sections onto both edges of the first strip simultaneously along their entire length to securely hold the first strip to the profile sections, and moving the outer sides of the second grooves in the profile sections onto both edges of the second strip simultaneously along their entire length to securely hold the second strip to the profile sections.

7. A method as claimed in claim 6 wherein the outer sides of the first grooves are moved simultaneously with the outer sides of the second grooves.

8. A method as claimed in claim 7 wherein the profile sections are mounted in a first die and a second die is relatively moved toward the first die to effect the simultaneous moving of the outer sides of the first and second grooves.

9. A method as claimed in claim 8 wherein the amount of movement of the second die relative to the first die is controlled to avoid damaging the strip while securely fastening the strip to the profile sections.

10. An apparatus for use in forming a thermal break between a pair of profile sections, each profile section having an elongate groove along its length and an insulating strip loosely held in

the grooves and extending between the sections; the apparatus being a press having a bed to support a first die; the first die holding the first and a second profile sections in place, slightly spaced apart, parallel to each other, and with the grooves facing; the first die at least as long as the profile sections; the press having a member carrying a second die spaced from the first die, the second die at least as long as the grooves, and moving means on the press for relatively moving the second die toward the first die for partly closing the grooves in the profile sections, simultaneously along their entire length, onto the strip to securely hold the strip to the profile sections.

11. An apparatus for use in forming a thermal break between a pair of profile sections, each profile section having a first side with first and second elongate, parallel, slightly open, grooves therein, and first and second insulating strips extending between the profile sections, each strip having opposed longitudinal edges, the first strip loosely held by its edges in the first grooves in the profile sections, the second strip loosely held by its edges in the second grooves in the profile sections; the apparatus comprising a press having a bed and a first die mounted on the bed, the first die holding the profile sections with first and second insulating strips extending between the profile sections, the first die at least as long as the profile sections; a second die opposite the first die, the second die at least as long as the profile sections; and moving means for relatively moving the second die toward the first die to cause the first die to crimp the profile sections adjacent the first grooves simultaneously along the length of the strip onto the first strip and to cause the second die to crimp the profile sections adjacent the second grooves simultaneously along the length of the strip onto the second strip to securely hold the strips to the profile sections.

12. An apparatus as claimed in claim 11 including stop means on the dies for limiting the movement of the first and second dies

toward each other to control the amount of crimping.

13. An apparatus as claimed in claim 12 wherein the stop means comprise cooperating surfaces on the dies that abut to limit movement of the second die toward the first die.

14. An apparatus as claimed in claim 11 wherein the first and second dies each have spaced-apart projecting shoulders for contacting outer portions of the profile sections adjacent the grooves, the shoulders on the second die aligned with and facing the shoulders on the first die, the shoulders moving these outer portions as the second die moves relatively toward the first die to crimp the profile sections adjacent the grooves.

15. An apparatus as claimed in claim 12 wherein the first and second dies each have spaced-apart projecting shoulders for contacting outer portions of the profile sections adjacent the grooves, the shoulders on the second die aligned with and facing the shoulders on the first die, the shoulders moving these outer portions as the second die moves relatively toward the first die to crimp the profile sections adjacent the grooves.